

CLAIMS

What is claimed is:

1. A blend of biodiesel fuel and alcohol-based fuel comprising:

2 biodiesel fuel blended with an alcohol-based fuel as an additive to the biodiesel fuel.

2. The blend of Claim 1 wherein the blend consists essentially of biodiesel fuel and

2 alcohol-based fuel.

3. The blend of Claim 1 wherein the fuel consists of at least 80% biodiesel fuel by
volume.

4. The blend of Claim 1 wherein the fuel consists of at least 85% biodiesel fuel by
volume.

5. The blend of Claim 1 wherein the fuel consists of at least 90% biodiesel fuel by
volume.

6. The blend of Claim 1 wherein the fuel consists of between 93% and 95% biodiesel
fuel and between 5% and 7% alcohol-based fuel by volume.

7. The blend of Claim 1 wherein the biodiesel fuel comprises between about 80% and
95% by volume, and the alcohol-based fuel comprises between about 5% and 20% by volume.

8. A fuel blend of biodiesel fuel mixed with alcohol-based fuel with about 80% diesel
2 fuel, the fuel blend comprising:

about 20% by volume of a biodiesel based fuel comprising biodiesel fuel mixed with an
4 alcohol-based fuel, and about 80% diesel fuel by volume, wherein the fuel blend has a cetane
rating of at least about 62.9.

9. The fuel blend of Claim 8 wherein the fuel blend consists essentially of diesel fuel,
2 biodiesel fuel and alcohol-based fuel.

10. The fuel blend of Claim 8 wherein the biodiesel based fuel consists of at least 80%
biodiesel fuel.

11. The fuel blend of Claim 8 wherein the biodiesel based fuel consists of at least 85%
2 biodiesel fuel.

12. The fuel blend of Claim 8 wherein the biodiesel based fuel consists of at least 90%
2 biodiesel fuel.

13. The fuel blend of Claim 8 wherein the biodiesel based fuel consists of between 93%
2 and 95% biodiesel fuel and between 5% and 7% alcohol-based fuel.



14. The fuel blend of Claim 8 wherein the biodiesel based fuel comprises between
2 about 80% and 95% biodiesel fuel by volume, and the alcohol-based fuel comprises between
about 5% and 20% by volume.

15. A method of making a blended biodiesel fuel comprising the steps of:
2 obtaining a biodiesel fuel and obtaining and alcohol-based fuel and mixing the biodiesel
fuel with the alcohol-based fuel as an additive.

16. The method of Claim 15 wherein the alcohol-based fuel is mixed with the biodiesel
for improving the cetane rating of the biodiesel fuel.

17. The method of Claim 15 wherein the blended biodiesel fuel consists essentially of
2 biodiesel fuel and alcohol-based fuel.

18. The method of Claim 15 wherein the blended biodiesel fuel consists essentially of at
2 least 80% biodiesel fuel by volume.

19. The method of Claim 15 wherein the blended biodiesel fuel consists essentially of at
2 least 85% biodiesel fuel by volume.

20. The method of Claim 15 wherein the blended biodiesel fuel consists of at least 90%
2 biodiesel fuel by volume.

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21. The method of Claim 15 wherein the blended biodiesel fuel consists essentially of
2 between 93% and 95% biodiesel fuel by volume and between 5% and 7% alcohol-based fuel
by volume.

22. The method of Claim 15 wherein the blended biodiesel fuel consists essentially of
2 the biodiesel fuel which comprises between about 80% and 95% by volume, and the alcohol-
based fuel which comprises between about 5% and 20% by volume.

23. The blend of Claim 1 wherein the alcohol-based fuel comprises ethanol.

24. The fuel blend of Claim 8 wherein the alcohol-based fuel comprises ethanol.

25. The method of Claim 15 wherein in the step of obtaining, the alcohol-based fuel
obtained comprises ethanol.

26. The fuel of Claim 1 wherein the amount of biodiesel is at least about 50% by
2 volume.

27. The blended fuel of Claim 8 wherein the amount of biodiesel fuel in the biodiesel
2 based fuel is at least about 50% by volume.



28. The method of Claim 15 wherein in the step of mixing, at least about one part by
2 volume of biodiesel fuel is mixed with no more than about one part by volume of alcohol-based
fuel.

29. The blend of Claim 1 wherein the alcohol-based fuel is an additive for enhancing
2 the cetane number of the biodiesel fuel.

30. The method of Claim 15 wherein in the step of blending, the alcohol-based fuel is
2 added for enhancing the cetane number of the biodiesel fuel.

31. The blend of Claim 29 wherein the alcohol-based fuel is also an additive to improve
the cleaning ability of the biodiesel fuel.

32. The fuel blend of Claim 8 wherein the alcohol-based fuel is also an additive to
improve the cleaning ability of the biodiesel fuel.

33. The method of Claim 30 wherein in the step of mixing, the alcohol-based fuel is
2 added for also enhancing the cleaning ability of the biodiesel fuel.

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